RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/523,893 A_

Source: _PG/IP_

Date Processed by STIC: _1/9/06_

ENTERED

/

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/523,893A_   CRF Edit Date: _1/11/06_
                                            Edited by: _____

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other:

_____
_____
_____

Revised 09/09/2003

P

RAW SEQUENCE LISTING   DATE: 01/11/2006
PATENT APPLICATION: US/10/523,893A   TIME: 12:16:19

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01112006\J523893A.raw**

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 3 <110> APPLICANT: Lowery, David E.
 4         Smith, Valdin G.
 5         Kubiak, Teresa M.
 6         Larsen, Martha J.
 8 <120> TITLE OF INVENTION: Drosophila G Protein Coupled Receptors, Nucleic Acids, and
 9        Methods Related to the Same
11 <130> FILE REFERENCE: PHRM0002-105
13 <140> CURRENT APPLICATION NUMBER: US 10/523,893A
14 <141> CURRENT FILING DATE: 2005-02-04
16 <150> PRIOR APPLICATION NUMBER: US 10/283,423
17 <151> PRIOR FILING DATE: 2002-10-30
19 <150> PRIOR APPLICATION NUMBER: US 09/693,746
20 <151> PRIOR FILING DATE: 2000-10-20
22 <150> PRIOR APPLICATION NUMBER: US 09/425,676
23 <151> PRIOR FILING DATE: 1999-10-22
25 <160> NUMBER OF SEQ ID NOS: 232
27 <170> SOFTWARE: PatentIn version 3.3
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 1803
31 <212> TYPE: DNA
32 <213> ORGANISM: D. melanogaster
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39 atcttggcgg atgtggctgc atcggatgag gataggagcg gcgggatcat tcacaaccag     180
41 ttcgtgcaaa tcttcttcta cgtcctgtac gccacggtct ttgtcctggg tgtcttcgga     240
43 aatgtcctgg tttgctacgt agttctgagg aatcgggcca tgcagactgt gaccaatata     300
45 ttcatcacga atctggccct gtcggacata ttgctctgcg tcctggcggt gccatttact     360
47 ccgctttaca cgttcatggg tcgctgggcc ttcggcagga gtctgtgcca tctggtgtcc     420
49 tttgcccagg gatgcagcat ctacatatcc acgctgaccc tcacctcgat tgccatcgat     480
51 cggtacttcg ttatcatata cccctttcat ccgcgcatga gctctccac ctgcatcggg     540
53 atcatagtga gcatctgggt gatagccctg ctggccaccg ttccctacgg catgtacatg     600
55 aagatgacca acgagctggt gaacggaacg cagacaggca acgagaccct ggtggaggcc     660
57 actctaatgc taaacggaag ctttgtggcc cagggatcag gattcatcga ggcgccggac     720
59 tctacctcgg ccacccaggc ctatatgcag gtgatgaccg ccggatcaac gggaccggag     780
61 atgccctatg tgcgggtgta ctgcgaggag aactggccat cggagcagta ccggaaggtg     840
63 ttcggtgcca tcacaaccac tctgcagttt gtgctgccct tcttcatcat ctcgatttgc     900
65 tacgtgtgga tatcggtgaa gctaaaccag cgggcaggg ccaagccggg atcgaaatcc     960
67 tcgagacggg aggaggcgga tcgggatcgc aagaagcgca ccaaccgcat gctcatcgcc    1020
69 atggtggcgg tattcggact cagctggctg cccatcaatg tggtcaacat attcgatgac    1080
71 ttcgatgaca agtccaacga gtggcgcttc tacatcctat tcttctttgt ggcccactct    1140
73 attgccatga gctccacctg ctacaatccc ttcctgtacg cctggctgaa cgagaacttc    1200
75 cgcaaggagt tcaagcacgt gctgccctgc tttaatccct cgaacaacaa catcatcaac    1260
```

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77  atcaccaggg gctataatcg gagtgatcgg aacacctgtg gtccgcgact gcatcatggc   1320
79  aaggggatg gtggcatggg cggtggcagt ctggacgccg acgaccagga cgagaacggc   1380
81  atcacccagg agacctgtct gcccaaggag aagctgctga ttatccccag ggagccgact   1440
83  tacggcaatg gcacgggtgc cgtgtcgcca atccttagcg ggcgcggcat taacgccgcc   1500
85  ctggtgcacg gtggcgacca tcagatgcac cagctgcagc cgtcacacca tcaacaggtg   1560
87  gagctgacga ggcgaatccg ccggcggaca gacgagacgg acggggatta cctggactcc   1620
89  ggcgacgagc agaccgtgga ggtgcgcttc agcgagacgc cgttcgtcag cacggataat   1680
91  accaccggga tcagcattct ggagacgagt acgagtcact gccaggactc ggatgtgatg   1740
93  gtcgagctgg gcgaggcaat cggcgccggt ggtggggcag agctggggag gcgaatcaac   1800
95  tga                                                                  1803
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99  <211> LENGTH: 600
100 <212> TYPE: PRT
101 <213> ORGANISM: D melanogaster
103 <400> SEQUENCE: 2
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110             20                  25                  30
113 Thr Ser Pro Gly Thr Thr Ser Ala Ile Leu Ala Asp Val Ala Ala Ser
114             35                  40                  45
117 Asp Glu Asp Arg Ser Gly Gly Ile Ile His Asn Gln Phe Val Gln Ile
118         50                  55                  60
121 Phe Phe Tyr Val Leu Tyr Ala Thr Val Phe Val Leu Gly Val Phe Gly
122 65                  70                  75                  80
125 Asn Val Leu Val Cys Tyr Val Val Leu Arg Asn Arg Ala Met Gln Thr
126             85                  90                  95
129 Val Thr Asn Ile Phe Ile Thr Asn Leu Ala Leu Ser Asp Ile Leu Leu
130             100                 105                 110
133 Cys Val Leu Ala Val Pro Phe Thr Pro Leu Tyr Thr Phe Met Gly Arg
134         115                 120                 125
137 Trp Ala Phe Gly Arg Ser Leu Cys His Leu Val Ser Phe Ala Gln Gly
138         130                 135                 140
141 Cys Ser Ile Tyr Ile Ser Thr Leu Thr Leu Thr Ser Ile Ala Ile Asp
142 145                 150                 155                 160
145 Arg Tyr Phe Val Ile Ile Tyr Pro Phe His Pro Arg Met Lys Leu Ser
146                 165                 170                 175
149 Thr Cys Ile Gly Ile Ile Val Ser Ile Trp Val Ile Ala Leu Leu Ala
150             180                 185                 190
153 Thr Val Pro Tyr Gly Met Tyr Met Lys Met Thr Asn Glu Leu Val Asn
154         195                 200                 205
157 Gly Thr Gln Thr Gly Asn Glu Thr Leu Val Glu Ala Thr Leu Met Leu
158         210                 215                 220
161 Asn Gly Ser Phe Val Ala Gln Gly Ser Gly Phe Ile Glu Ala Pro Asp
162 225                 230                 235                 240
165 Ser Thr Ser Ala Thr Gln Ala Tyr Met Gln Val Met Thr Ala Gly Ser
166             245                 250                 255
169 Thr Gly Pro Glu Met Pro Tyr Val Arg Val Tyr Cys Glu Glu Asn Trp
170             260                 265                 270
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Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01112006\J523893A.raw**

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173 Pro Ser Glu Gln Tyr Arg Lys Val Phe Gly Ala Ile Thr Thr Thr Leu
174         275             280             285
177 Gln Phe Val Leu Pro Phe Phe Ile Ile Ser Ile Cys Tyr Val Trp Ile
178     290             295             300
181 Ser Val Lys Leu Asn Gln Arg Ala Arg Ala Lys Pro Gly Ser Lys Ser
182 305             310             315             320
185 Ser Arg Arg Glu Glu Ala Asp Arg Asp Arg Lys Lys Arg Thr Asn Arg
186         325             330             335
189 Met Leu Ile Ala Met Val Ala Val Phe Gly Leu Ser Trp Leu Pro Ile
190         340             345             350
193 Asn Val Val Asn Ile Phe Asp Asp Phe Asp Asp Lys Ser Asn Glu Trp
194         355             360             365
197 Arg Phe Tyr Ile Leu Phe Phe Phe Val Ala His Ser Ile Ala Met Ser
198     370             375             380
201 Ser Thr Cys Tyr Asn Pro Phe Leu Tyr Ala Trp Leu Asn Glu Asn Phe
202 385             390             395             400
205 Arg Lys Glu Phe Lys His Val Leu Pro Cys Phe Asn Pro Ser Asn Asn
206         405             410             415
209 Asn Ile Ile Asn Ile Thr Arg Gly Tyr Asn Arg Ser Asp Arg Asn Thr
210         420             425             430
213 Cys Gly Pro Arg Leu His His Gly Lys Gly Asp Gly Gly Met Gly Gly
214         435             440             445
217 Gly Ser Leu Asp Ala Asp Asp Gln Asp Glu Asn Gly Ile Thr Gln Glu
218     450             455             460
221 Thr Cys Leu Pro Lys Glu Lys Leu Leu Ile Ile Pro Arg Glu Pro Thr
222 465             470             475             480
225 Tyr Gly Asn Gly Thr Gly Ala Val Ser Pro Ile Leu Ser Gly Arg Gly
226         485             490             495
229 Ile Asn Ala Ala Leu Val His Gly Gly Asp His Gln Met His Gln Leu
230         500             505             510
233 Gln Pro Ser His His Gln Gln Val Glu Leu Thr Arg Arg Ile Arg Arg
234         515             520             525
237 Arg Thr Asp Glu Thr Asp Gly Asp Tyr Leu Asp Ser Gly Asp Glu Gln
238     530             535             540
241 Thr Val Glu Val Arg Phe Ser Glu Thr Pro Phe Val Ser Thr Asp Asn
242 545             550             555             560
245 Thr Thr Gly Ile Ser Ile Leu Glu Thr Ser Thr Ser His Cys Gln Asp
246         565             570             575
249 Ser Asp Val Met Val Glu Leu Gly Glu Ala Ile Gly Ala Gly Gly Gly
250         580             585             590
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254     595             600
257 <210> SEQ ID NO: 3
258 <211> LENGTH: 1445
259 <212> TYPE: DNA
260 <213> ORGANISM: D. melanogaster
262 <400> SEQUENCE: 3
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265 agcagcaaca gcgtgcgcta tctggacgac cggcatccgc tggactacct tgacctgggc     120
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/523,893A

DATE: 01/11/2006
TIME: 12:16:19

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01112006\J523893A.raw

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267 acggtgcacg ccctcaacac cactgccatc aacacctcgg atctgaatga gactgggagc    180
269 aggccgctgg acccggtgct tatcgatagg ttcctgagca acagggcggt ggacagcccc    240
271 tggtaccaca tgctcatcag catgtacggc gtgctaatcg tcttcggcgc cctaggcaac    300
273 accctggttg ttatagccgt catccggaag cccatcatgc gcactgctcg caatctgttc    360
275 atcctcaacc tggccatatc ggacctactt ttatgcctag tcaccatgcc gctgaccttg    420
277 atggagatcc tgtccaagta ctggccctac ggctcctgct ccatcctgtg caaaacgatt    480
279 gccatgctgc aggcactttg tattttcgtg tcgacaatat ccataacggc cattgccttc    540
281 gacagatatc aggtgatcgt gtaccccacg cgggacagcc tgcagttcgt gggcgcggtg    600
283 acgatcctgg cggggatctg ggcactggca ctgctgctgg cctcgccgct gttcgtctac    660
285 aaggagctga tcaacacaga cacgccggca ctcctgcagc agatcggcct gcaggacacg    720
287 atcccgtact gcattgagga ctggccaagt cgcaacgggc gcttctacta ctcgatcttc    780
289 tcgctgtgcg tacaatacct ggtgcccatc ctgatcgtct cggtggcata cttcgggatc    840
291 tacaacaagc tgaagagccg catcaccgtg gtggctgtgc aggcgtcctc cgctcagcgg    900
293 aaggtggagc gggggcggcg gatgaagcgc accaactgcc tactgatcag catcgccatc    960
295 atctttggcg tttcttggct gccgctgaac ttttttcaacc tgtacgcgga catggagcgc   1020
297 tcgccggtca ctcagagcat gctagtccgc tacgccatct gccacatgat cggcatgagc   1080
299 tccgcctgct ccaacccgtt gctctacggc tggctcaacg acaacttccg taaagaattt   1140
301 caagaactgc tctgccgttg ctcagacact aatgttgctc ttaacggtca cacgacaggc   1200
303 tgcaacgtcc aggcggcggc gcgcaagcgt cgcaagttgg cgcccgaact ctccaaaggc   1260
305 gaactcaagc tgctggggcc aggcggcgcc cagagcggta ccgccggcgg ggaaggcggt   1320
307 ctggcggcca ccgacttcat gaccggccac cacgagggcg gactgcgcag cgccataacc   1380
309 gagtcggtgg ccctcacgga ccacaacccc gtgccctcgg aggtcaccaa gctgatgccg   1440
311 cggta                                                               1445
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315 <211> LENGTH: 357
316 <212> TYPE: PRT
317 <213> ORGANISM: D. melanogaster
319 <400> SEQUENCE: 4
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325 Asn Glu Glu Asn Ile Thr Ser Phe Phe Thr Asp Glu Glu Trp Leu Ala
326             20                  25                  30
329 Ile Asn Gly Thr Leu Pro Trp Ile Val Gly Phe Phe Phe Gly Val Ile
330         35                  40                  45
333 Ala Ile Thr Gly Phe Phe Gly Asn Leu Leu Val Ile Leu Val Val Val
334     50                  55                  60
337 Phe Asn Asn Asn Met Arg Ser Thr Thr Asn Leu Met Ile Val Asn Leu
338 65                  70                  75                  80
341 Ala Ala Ala Asp Leu Met Phe Val Ile Leu Cys Ile Pro Phe Thr Ala
342             85                  90                  95
345 Thr Asp Tyr Met Val Tyr Tyr Trp Pro Tyr Gly Arg Phe Trp Cys Arg
346             100                 105                 110
349 Ser Val Gln Tyr Leu Ile Val Val Thr Ala Phe Ala Ser Ile Tyr Thr
350         115                 120                 125
353 Leu Val Leu Met Ser Ile Asp Arg Phe Leu Ala Val Val His Pro Ile
354     130                 135                 140
357 Arg Ser Arg Met Met Arg Thr Glu Asn Ile Thr Leu Ile Ala Ile Val
358 145                 150                 155                 160
361 Thr Leu Trp Ile Val Val Leu Val Val Ser Val Pro Val Ala Phe Thr
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RAW SEQUENCE LISTING   DATE: 01/11/2006
PATENT APPLICATION: US/10/523,893A   TIME: 12:16:19

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01112006\J523893A.raw**

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365 His Asp Val Val Val Asp Tyr Asp Ala Lys Lys Asn Ile Thr Tyr Gly
366                180              185              190
369 Met Cys Thr Phe Thr Thr Asn Asp Phe Leu Gly Pro Arg Thr Tyr Gln
370            195              200              205
373 Val Thr Phe Phe Ile Ser Ser Tyr Leu Leu Pro Leu Met Ile Ile Ser
374        210              215              220
377 Gly Leu Tyr Met Arg Met Ile Met Arg Leu Trp Arg Gln Gly Thr Gly
378 225                230              235              240
381 Val Arg Met Ser Lys Glu Ser Gln Arg Gly Arg Lys Arg Val Thr Arg
382                245              250              255
385 Leu Val Val Val Val Val Ile Ala Phe Ala Ser Leu Trp Leu Pro Val
386            260              265              270
389 Gln Leu Ile Leu Leu Leu Lys Ser Leu Asp Val Ile Glu Thr Asn Thr
390        275              280              285
393 Leu Thr Lys Leu Val Ile Gln Val Thr Ala Gln Thr Leu Ala Tyr Ser
394        290              295              300
397 Ser Ser Cys Ile Asn Pro Leu Leu Tyr Ala Phe Leu Ser Glu Asn Phe
398 305            310              315              320
401 Arg Lys Ala Phe Tyr Lys Ala Val Asn Cys Ser Ser Arg Tyr Gln Asn
402            325              330              335
405 Tyr Thr Ser Asp Leu Pro Pro Pro Arg Lys Thr Ser Cys Ala Arg Thr
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413 <210> SEQ ID NO: 5
414 <211> LENGTH: 1376
415 <212> TYPE: DNA
416 <213> ORGANISM: D. melanogaster
418 <400> SEQUENCE: 5
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423 acggtgcacg ccctcaacac cactgccatc aacacctcgg atctgaatga gactgggagc   180
425 aggccgctgg acccggtgct tatcgatagg ttcctgagca cagggcggt ggacagcccc    240
427 tggtaccaca tgctcatcag catgtacggc gtgctaatcg tcttcggcgc cctaggcaac   300
429 accctggttg ttatagccgt catccggaag cccatcatgc gcactgctcg caatctgttc   360
431 atcctcaacc tggccatatc ggacctactt ttatgcctag tcaccatgcc gctgaccttg   420
433 atggagatcc tgtccaagta ctggccctac ggctcctgct ccatcctgtg caaaacgatt   480
435 gccatgctgc aggcactttg tattttcgtg tcgacaatat ccataacggc cattgccttc   540
437 gacagatatc aggtgatcgt gtaccccacg cgggacagcc tgcagttcgt gggcgcggtg   600
439 acgatcctgg cggggatctg ggcactggca ctgctgctgg cctcgccgct gttcgtctac   660
441 aaggagctga tcaacacaga cacgccggca ctcctgcagc agatcggcct gcaggacacg   720
443 atcccgtact gcattgagga ctggccaagt cgcaacgggc gcttctacta ctcgatcttc   780
445 tcgctgtgcg tacaatacct ggtgcccatc ctgatcgtct cggtggcata cttcgggatc   840
447 tacaacaagc tgaagagccg catcaccgtg gtggctgtgc aggcgtcctc cgctcagcgg   900
449 aaggtggagc gggggcggcg gatgaagcgc accaactgcc tactgatcag catcgccatc   960
451 atctttggcg tttcttggct gccgctgaac ttttcaacc tgtacgcgga catggagcgc  1020
453 tcgccggtca ctcagagcat gctagtccgc tacgccatct gccacatgat cggcatgagc  1080
455 tccgcctgct ccaacccgtt gctctacggc tggctcaacg acaacttccg ctgcaacgtc  1140
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/11/2006
PATENT APPLICATION: **US/10/523,893A**   TIME: 12:16:20

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01112006\J523893A.raw**

<u>≥ase Note:</u>
≥ of n and/or Xaa have been detected in the Sequence Listing. Please review the
quence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

ᴉ#:50; Xaa Pos. 3
ᴉ#:88; Xaa Pos. 1
ᴉ#:120; Xaa Pos. 1
ᴉ#:138; Xaa Pos. 1
ᴉ#:151; Xaa Pos. 1
ᴉ#:177; Xaa Pos. 1
ᴉ#:182; Xaa Pos. 1
ᴉ#:184; Xaa Pos. 1
ᴉ#:185; Xaa Pos. 1
ᴉ#:232; Xaa Pos. 1

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/523,893A**

DATE: 01/11/2006
TIME: 12:16:20

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01112006\J523893A.raw**

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2675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
3213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
3667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0
3923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0
4111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:0
4479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0
4555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182 after pos.:0
4589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0
4609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185 after pos.:0
5189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:0
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**Raw Sequence Listing before editing,
for reference only**

PCT

RAW SEQUENCE LISTING   DATE: 01/09/2006
PATENT APPLICATION: US/10/523,893A   TIME: 12:05:37

Input Set : A:\PHRM0002-105.ST25.txt
Output Set: N:\CRF4\01092006\J523893A.raw

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 3 <110> APPLICANT: Lowery, David E.
 4          Smith, Valdin G.
 5          Kubiak, Teresa M.
 6          Larsen, Martha J.
 8 <120> TITLE OF INVENTION: Drosophila G Protein Coupled Receptors, Nucleic Acids, and
 9          Methods Related to the Same
11 <130> FILE REFERENCE: PHRM0002-105
13 <140> CURRENT APPLICATION NUMBER: US 10/523,893A
14 <141> CURRENT FILING DATE: 2005-02-04
16 <150> PRIOR APPLICATION NUMBER: US 10/283,423
17 <151> PRIOR FILING DATE: 2002-10-30
19 <150> PRIOR APPLICATION NUMBER: US 09/693,746
20 <151> PRIOR FILING DATE: 2000-10-20
22 <150> PRIOR APPLICATION NUMBER: US 09/425,676
23 <151> PRIOR FILING DATE: 1999-10-22
25 <160> NUMBER OF SEQ ID NOS: 232
27 <170> SOFTWARE: PatentIn version 3.3
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ERRORED SEQUENCES

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        5174 <211> LENGTH: 14
        5175 <212> TYPE: PRT
        5176 <213> ORGANISM: Artificial Sequence
        5178 <220> FEATURE:
        5179 <223> OTHER INFORMATION: Novel Sequence
        5182 <220> FEATURE:
        5183 <221> NAME/KEY: MOD_RES
        5184 <222> LOCATION: (1)..(1)
        5185 <223> OTHER INFORMATION: Xaa is pGlu
        5187 <400> SEQUENCE: 232
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        5190 1               5                   10
E-->    5193 - 1 -
E-->    5195 - 17 -
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VERIFICATION SUMMARY　　　　　　　　　DATE: 01/09/2006
PATENT APPLICATION:　**US/10/523,893A**　　　TIME: 12:05:38

Input Set : **A:\PHRM0002-105.ST25.txt**
Output Set: **N:\CRF4\01092006\J523893A.raw**

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L:3213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:3667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0
L:3923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0
L:4111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:0
L:4479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0
L:4555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182 after pos.:0
L:4589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0
L:4609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185 after pos.:0
L:5189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:0
L:5193 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:232
L:5195 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:232
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